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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/762,579	01/23/2004	Jin Mizuguchi	1417-448	3028
23117	7590 12/22/2004		EXAM	INER
NIXON & VANDERHYE, PC 1100 N GLEBE ROAD			GREEN, AN	THONY J
8TH FLOOR ARLINGTON, VA 22201-4714			ART UNIT	PAPER NUMBER
			1755	

DATE MAILED: 12/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

***************************************		<u> </u>				
	Application No.	Applicant(s)				
	10/762,579	MIZUGUCHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Anthony J. Green	1755				
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicati. - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory I - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a on. a reply within the statutory minimum of thi period will apply and will expire SIX (6) MO statute. cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. BRANDONED (35 U.S.C. § 133)				
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) This action is non-final.						
3) Since this application is in condition for al	lowance except for formal mat	tters, prosecution as to the merits is				
closed in accordance with the practice un	der <i>Ex parte Quayl</i> e, 1935 C.I	D. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) <u>1-4</u> is/are pending in the applicat	ion					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction a	ind/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exa	miner.					
10) $oxtimes$ The drawing(s) filed on 23 January 2004 is	s/are: a)⊠ accepted or b)□ o	objected to by the Examiner.				
Applicant may not request that any objection to		` ,				
Replacement drawing sheet(s) including the co						
11)☐ The oath or declaration is objected to by the	ne Examiner. Note the attache	d Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for for	reian priority under 35 U.S.C. (\$ 119(a)-(d) or (f)				
a) All b) Some * c) None of:	5 , ,	3 110(4) (5) 51 (1).				
 Certified copies of the priority docur 	nents have been received.	•				
2. Certified copies of the priority docur						
3. Copies of the certified copies of the		received in this National Stage				
application from the International Bu						
* See the attached detailed Office action for a	a list of the certified copies not	received.				
Attachment(s)	•					
1) Notice of References Cited (PTO-892)	4) Interview S	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s	s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/St Paper No(s)/Mail Date	3/08) 5)	nformal Patent Application (PTO-152)				
S. Patent and Trademark Office						
PTOL-326 (Rev. 1-04) Offic	ce Action Summary	Part of Paper No./Mail Date 112604				

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DETAILED ACTION

Priority

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Japan on 27 July 2001. It is noted, however, that applicant has not filed a certified copy of the foreign application as required by 35 U.S.C. 119(b).

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 1-4 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claims contain subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

In the specification on pages 4 and 5 applicant shows structures labeled as (III) and (IV) and recites on page 5, lines 13-14 after structure (IV): "the said R³ and R⁴ being bonded to adjacent positions of the aromatic ring respectively". It is unclear as to what exactly applicant intends this limitation to mean as it is unclear as to which aromatic ring R³ and R⁴ are supposed to be bonded to. Is applicant referring to one of the central rings or a ring that is formed having R³ and R⁴ as its substituents? Note that R³ and R⁴ do not appear to be bonded to any aromatic ring in the structure as shown. Also applicant provides no examples or structures in the specification showing exactly

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what is meant by the phrase. Accordingly it is the position that the specification is not enabled with respect to structures (III) and (IV).

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 1-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1 it is unclear as to what is meant by the phrase "the said R³ and R⁴, being bonded to adjacent positions of the aromatic ring respectively". See the 112 first paragraph rejection for more details. The phrase "the aromatic ring" appears to lack proper antecedent basis.

In claim 3 the phrase "the content" appears to lack proper antecedent basis.

Claim 4 is vague and indefinite as it the phrase "the formulae (I) to (IV)" is not described. Note that no formulae are recited in the claim.

Prior Art Recited In The Specification

6. Applicants should provide copies and any applicable translations or English language equivalents of the foreign references cited and described in applicant's specification on page 2 as they are unavailable to the examiner and considered pertinent to applicant's disclosure.

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References Cited By The Examiner

7. The references are cited as showing the general state of the art and as such, they are not seen to teach or fairly suggest the instant invention. While some of the references, particularly US 4,882,254, teach mixtures of perylenes having the instant formulae, applicant shows in the specification that the solid solution or mixed crystal of the invention is not the same as a mere mixtures of perylene compounds. According to the instant specification "the solid solution is confirmed by observing a new diffraction diagram different from that of a simple mixture of raw materials, wherein some of the diffraction peaks of the mixture disappear and new diffraction peaks appear upon X-ray diffraction analysis" and that this is obtained by calcining a mixture of perylene compounds. Thus applicant has shown that the instant solid solution of the instant claims is different from that obtained merely by mixing perylene compounds which is what is found in the prior art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony J. Green whose telephone number is 571-272-1367. The examiner can normally be reached on Monday-Thursday 6:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark L. Bell can be reached on 571-272-1362. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Anthon⊭ **J**/. Green Primary Examiner

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ajg

November 26, 2004